

#### L BE PROUD N BLACKHAWKS

Thile it costs no more in the long in to own Blackhawk Wrenches – yet, no other brand of Wrench quipment so clearly stamps you leader in your field. The reams behind this extra personal rlue to you are:

) Every major socket wrench deslopment has come from Black-

hawk and you automatically share that leadership.

(2) Their extra-utility and design features, just naturally make a good workman better.

(1) Their silver-bright ish can be kept tmanent—stamping as a modern, or-y, well-equipped, editcient mechanici

# REASONS uy Blackhawk Wrenches Salesman!

 Blackhawk products are sold timate Jobbers with high ratings.
 tory guarantee plus the guarantoutor.

is because the Blackhawk Jobber at Blackhawk Wrenches.

SOURCE OF SUPPLY — Your in represents a local institution ted in your good-will. He is not jone-tomorrow" tool peddler.

OIT — get a rated business contextra charges and build your Blackhawk Jobber.

JTION — Wherever you are, it's enches. Hundreds of Blackhawk of Jobber Salosmen serve every to United States, Canada and

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## Buy With Confidence . . . Blackhawk Wrenches are GUARANTEED!

All Blackhawk Wrenches are guaranteed against defects in both material and workmanship. Free replacements or repairs will be made on all wrenches that do not stand up to this guarantee.

Replacements, naturally, cannot be made if inspection shows that handles or sockets have been hammered or used with Stillson Wrenches for extra leverage — handles or sockets have been ground thinner or changed in design — sockets have been used on over or under-sized nuts — undue leverage has been exerted — or, that wrenches have been worn out from use or employed for purposes other than intended.

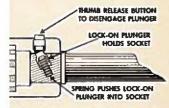
FLAT RATE REPLACEMENTS OF WORN WRENCHES PROTECT YOUR INVESTMENT: — Wrenches which might not get free replacement under the liberal Blackhawk Guarantee, are in many cases still worth money to their owner. Worn or damaged Ratchets, Hinged Offsets and Universal Speeders are repaired and returned on a FLAT RATE charge. Blackhawk has systematized this service to supply speedy, economical repairs. Mail damaged wrenches through the Blackhawk Distributor, or PREPAID direct to the Blackhawk factory with instructions, your name and return address.

#### wk Wrenchos onvenienc

## -RELEASE



TO LOCK THE SOCKET ON THE HANDLE simply line up the "Thumb-Release" button in the socket wall with the "Lock-On" plunger of the handle. They then slide together.



asily slides onto the drive. The ager in a sure-grip position.

TO RELEASE hold socket and handle as at left — press the "Thumb-Release" button — and pull the socket off the handle. Cross-section above shows why the built-in "Thumb-Release" button can accomplish this action.

TTTTT

Illiano de la

# LOCK-ON Clicks Sockets. Handles and Attachments Into ONE SOLID TOOL...

. . . Easily Disengaged by Pressing the "Thumb-Release" Button!

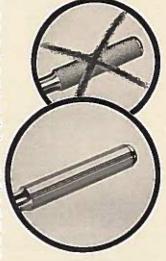
Blackhawk wrenches are not costly — but even if they were, experienced mechanics say they would gladly pay an extra price for the Thumb-Release "Lock-On" feature!

"Lock-On" saves time and temper. Sockets cannot stick in tight places, drop or slip off to cause damage or injury — a safety feature on overhead work or where sockets and attachments would cause extensive damage and loss of time if dropped in mechanism. This patented feature makes work fast, safe and sure. Thumb-Release "Lock-On" should not be confused with ordinary friction-ball grips or set-screw devices. Study the principle of "Lock-On" as described at the left — and for its contribution to your convenience and workmanship, insist that your socket wrenches have this patented feature!

# Blackhawk Wrenches Give You GRIPLINE

The exclusive "Gripline" design of Blackhawk handles looks good and has real utility. These "Griplines" are comfortable, give a firm grasp and wipe clean of grease and dirt . . . contrasted with unattractive crossknurled grips that are hand-cutters and grease-holders.

You pay no penalty in buying Blackhawk wrenches with this modern "Gripline" design. But you gain comfort — and you can keep your wrenches in their original luster for years.



# PROOF!

# check all rench lines

Line 8	Line C	Line D	Line E	Line F	Line G
* *			Ha.		
YES			YES		YES
YES				YES	YES
	YES			YES	
	YES	YES		YES	YES
					YES
50ME	50ME			YES	SOME
YES					
	YES				
YES	YES	SOME		YE5	YES
YES	YES	YES	YES	YES	YES
YES	YE5	YES	YES	YES	YES
	100				
YES					
YES	YES				

riginated by Blackhawk nly on 1" square drive

#### It's Easy To Understand THE BLACKHAWK NUMBERING SYSTEM!

Spend just a couple of minutes studying this page and there'il never be a mystery in understanding Blackhawk Wrench numbers! It's the key to quick interpretation of catalog listings and will simplify your ordering and handling of Blackhawk Wrenches.

#### How To Tell THE DRIVE OF A BLACKHAWK SOCKET WRENCH BY ITS CATALOG NO.

Blackhawk Socket Wrenches are furnished in six series of square drives — one more than any other Wrench manufacturer. Each drive has its own series of numbers as listed below. The first numeral in the identification denotes the drive in "eighths". (Examples: No. 20,000 series — the "2" represents 2/8 or 1/4-inch square drive. No. 30,000 series up to, but not including No. 35,000 series — the "3" represents 3/8 or 3/8-inch square drive.)

20,000 SERIES — 1/4" Square Drive. Listed as "Extra-small series. Also called "Midget" drive.

30,000 SERIES — 3/8" Square Drive, Listed as "small" series. Can be replaced entirely by the 7/16" Drive "Nugget" series listed below.

"35.000 SERIES — 7/16" Square Drive. Listed as "Nugget" Wrenches. Also called "Double-Duty" and the "New Standard" drive. Has same range and utility as must otherwise be secured by paying extra money to own wrenches in both 3/8" and 1/2" drives.

40,000 SERIES — 1/2" Square Drive. Listed as "Standard" Drive. Sometimes called the "Old Standard" because its utility is now completely replaced by the 7/16" "Nugget" drive which also does the job of the 3/8" drive.

60.000 SERIES — 3/4" Square Drive, Listed as "Heavy Duty" Drive.

80,000 SERIES — 1" 'Square Drive. Listed as "Extra-Heavy Duty" Drive.

## How To Tell THE SIZE OF A SOCKET BY THE CATALOG NO.

Now that the numbering system for drives has been explained — here's the equally easy guide to the socket size. The last two numerals tell the size of socket opening (width across flats) in thirty-seconds of an inch. Examples: No. 40125 represents 25/32". No. 30010 represents 10/32" or 5/16".

TURN THIS PAGE FOR THE AMAZING STORY ON 7/16" DRIVE "NUGGETS"



# STEEL

Nugget Socket Wrenches have they are made of — HEXITE!

sel 13 years ago and used it cause it was the only material stand the grueling work on the fotors, Ford, Chrysler and others

khawk learned the secrets of a cost basis that would warrant mechanics' field.

that it was foolish to think of ches since excess bulk was un-introduced "Nuggets" — with a c of both the %" and ½" series.



" DRIVE OCKET

in complete sizes from 11/4" with completely both 36 series.

#### 1/2" DRIVE SOCKET

of which mechanics once were forced to buy sizes from A" to 1/4" with handles (which duplicated many socket sizes and handles in the 36" series). Now replaced by 74" drive.

IICS: It costs less to buy 7 10 35 because one set does the work 1/2" series. Be sure to start out schanics who have used Nuggets the 1/2" Double-Duty drive!

#### WHO ALREADY HAVE

VT: It will pay you to get rid of renches and switch to Nuggets! is and handles in two sets cost would soon equal your in-, more efficient Nuggets.

AS STRONG AS 1/2" TOOLS



Diagram above shows cross-sections of a bar of Hexite Steel and a bar of Chrome Vanadium. Although the Hexite bar is 33½% smaller, it has the same strength of the larger piece of Chrome Vanadium. That's why Nuagets (made of Hexite) are smaller but equally as strong as ½" tools made of ordinary high-grade alloy steels.

#### SLIM AS 3/8" TOOLS



Diagram above shows drive ends of smallest sockets in %' and 1%' series. Both sockets have same (\$\frac{1}{6}\)" outside diameter PROOF that Nuggets get in everywhere and replace 3/a series.

#### LIGHTER THAN 1/2" TOOLS

Because Nuggets are made of Hexite steel, they can be made slimmer and lighter.
Nugget handles average 31% lighter than
1/2" square drive tools.
A 50-piece Nugget Set is 50% lighter and 52% less bulky than a combination set of 36" and 1/2" square drive wrenches of similar utility.



#### NUGGETS SAVE YOU



IL Contain

Figure it out yourself — add up the cost of handles and sockets in both 36" and 1/2" series. Subtract the total price

and ½" series. Subtract the total price of Nugget handles and sockets — the difference is YOUR BIG SAVING!

A mechanic would buy 50% MORE TOOLS in ¾" and ½" series to have the same range of 50 Nuggets. While Nuggets are interchangeable. (Over 23,000 combinations can be made with a 50 piece Nugget series.

with a 50-piece Nugget set) Nuggets not only do the work of 36" and 42" wrenches but actually handle many jobs not adapted to either of the old drives.

#### How To Pick Out "NUGGETS" from This Book:

drives. Nugget sets are shown separately on pages 25 to 31.

### CHETS

#### -Tooth Design



; have the radically new Blacktchet design (patent applied for); head design-instant reverse-

Length	"Lock-On" Drive
4½" 7"9½"	1/4" 7 16"
18" 9"	1 "

e-See next page for description.

e only for use with No. 89987 long, 1%" I.D., 174" O.D:

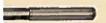
#### eeling Design



atchets give 212 bites to a circle See next page.

7 "	3∕6′′
918"	10"
101/2"	1/2"

#### ersible Designs



raichet wrench-has 1/4" square

refrigerator valves.		
61/2"	3/8"	



design-smooth action-instant

101/2"	1/2"



Instant reverse. Cadmium plated

-			-
ST LINE	10"	100	14"
	10		74

heavy duty work. Instantly red lug.

16"	3/4
20"	1 "

11.....

#### **EXCLUSIVE FEATURES OF** BLACKHAWK RATCHETS



39996 Ratchet has 91/2" length for leverage -- unscrewing and reversing handle grips gives 7" length for tight places. Really a "Double Duty

Nugget Ratchet"—eliminates need for two ratchets as required in combination 3's" and 1/2" square drive series. A time saver, that cuts your tool investment, too.

#### BUILT LIKE A BOX WRENCH

Scientific design of ratchet mechanism in 24991, 39996. and 49996 gives modern mechanics the ideal wrench. Wedge action equalizes strain within head. Teeth are broached into the heat treated alloy forging for unparalleled strength with line action. Has instant reverse-extremely small head,



#### 212 BITES TO A CIRCLE



1. ...

The Free Wheeling Ratchets Nos. 34981, 39997, 49997 are for the man who wants the finest action built. Cutthrough view shows rollers held in contact by spring backed plungerfree wheeling action gives full utility to every swing-no teeth-noise-

TITE TAXABLE

less-no back lash-reverses with flick of the wrist.

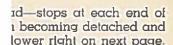
# IDLES ffset Handles



offset handles are built to more power—and easappearance—balanced r all work.

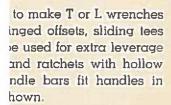
	"Lock-On"	
Length	Sq. Dr.	
5 "	1/4"	
8 "	3/6"	
71/4"	10"	
15 "	10"	
1156"	1/2"	
15%"	1/2"	
18 "	1/2"	
19 "	3/4"	

#### y Offsets



11"	1/2"	
18"	3/4**	

#### lle Bars

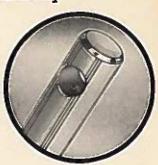


Length	Used with Handles in this Drive	
4"	1/4"	
7"	3/8"	
9"	18"	
11"	1/2"	
18"	3/4"	
23"	1 "	

## EXCLUSIVE FEATURES OF BLACKHAWK OFFSET HANDLES

#### **Triple Duty**

Hinged offset handles can be given extra leverage by Inserting the proper handle bar in the hollow grips. The cross hole permits use of the same handle bars to make Tee or L Wrenches. Spring backed ball holds drive lug firmly in any position. Useful for breaking nuts loose, running them off or on and for final tightening. Handy on all repair jobs.



#### Tough as a Wrestler's Neck

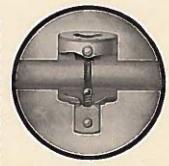


The clean cut, efficient design of these offsets makes them the best for real close clearance work. Notice the extremely thin throat—narrow hinge joint—and fine finish. The use of the strongest alloys gives unusual strength with perfect balance.

You should have one in your tool kit for both ordinary and mean jobs.

#### Two Tools in One

Blackhawk Sliding Tee Handles have a real convenience with the spring - backed ball in the heads. This engages with the groove in center of bar handle to prevent slipping - and makes a Tee. firm The same spring-backed ball holds the head in other positions as well, and prevents it from turning due to the weight of the



socket. A definite time saver on heavy work, particularly on overhead jobs.

Il. Guida

### NSIONS

#### Steel-Chromium Plated

e reach and adaptability of all put-of-the-way places, Blackhawk sive "Lock-On" feature save time f one-piece construction. Attachcome lost or cause damage.

#### ith Revolving Grip



Length	"Lock-On" Sq. D
6"	16"
6"	1/2"
10"	1/2"

#### Grip Handles

down in tight places. No. 34997

5 "	1/4"
5 "	36"
5 78"	7 "

#### Extension Bors



or L wrenches with handle bars.

17	39981	14"	18"	70"
**	49990	10"	10"	1/2"
21	69995	18"	81/2"	3/4"
N	69994	18"	17"	3/4"
14	89996	11/4"	9"	1 "
**	89995	114"	18"	1 "
**	page			

#### Sliding Tees

2"	1/2"
4"	1 "

es-1" square drive are finished in

#### cement Drive Lugs

q. Dr.	For use with Ratchet No.
	Old 9811
	916N & 69999
	89999
	Old 911X

## EXCLUSIVE FEATURES OF BLACKHAWK EXTENSIONS

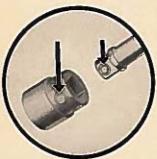
#### More Than An Extension

Blackhawk extensions do double-duty service—cross hole in head takes handle bar to make either Tee or Ell handles. Spring-backed ball holds bar in all positions firmly.

This construction does away with need for separate Tees or Ells — you make up your own and get more tools for your money.



#### Like a Solid Tool



CLICK! — and it's a rigid assembly. Press the thumb release button (with the slipperless hands) and it's apart. You can increase the length and usefulness of all Blackhawk tools by combining handles, extensions and sockets to fit any job. No need to buy expensive "specials", when the Lock. On makes all combina-

tions permanent — until you press the thumb release button.

LOCK-ON prevents dropping sockets in assemblies or losing them on the floor. Adds safety when heavy sockets are used overhead.

#### Easy on the Hands



Why blister your hands on old fashioned, hard-to-clean, knurled grips? Gripline handles are built on the principle of modern tires — with the non-skid acting only in the needed direction. Plenty of firm grip for tough pulls, but easily cleaned from the dirtiest job.

Found on Blackhawk ratchets, speeders, extensions, braces, offsets and hinged offsets.

Il Guida SWADENVALLER

### EDERS

#### Ratchet Brace



o the now famous Double-Duty t Brace that brings assembly line r work. Has the Blackhawk design, with 18 teeth and instant s 936" with a 4" sweep.

3, 78" Square Drive.

#### Handles



gth	Shank	Sweep	"Lock-On" Sq. Dr.
5"	7%"	4 "	16"
6"	6 "	43/4"	1/2"
"	B1/2"	43/4"	1/2"

#### er Handles



1"	10"	3%"	3/6"
144	11"	43/4"	14"
		2.74	7.6

ball end grip. End grip is similar

#### 3all Handle



give extra leverage to T or L comcentrifugal speed-up power for olts, 8" long overall.

mdle, Te" Square Drive.

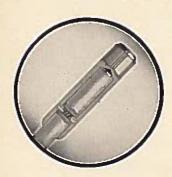
TTTT

#### EXCLUSIVE FEATURES OF BLACKHAWK BRACES AND SPEEDERS

No. 39995 Ratchet Brace (Illustrated on previous page) has the same "Broached-Tooth" Ratchet design used in regular Blackhawk Ratchets. This "Broached-Tooth" design (patent applied for) permits extremely small head, only 1½" diameter—exceptional strength instant reverse. It's 75" square drive gives it real "Double-Duty" utility.



#### No Stick — No Jam — No Loss!



Further proof of Black-hawk's quality design and manufacturing is in the patented grip construction on brace handles. These never stick, jam or come off — but continue to work smoothly and easily for the life of the tool.

This hidden value is typical of the way Black-hawk gives you more for your money in wrench equipment.

#### Hardened Bearings for Smoothness

A Blackhawk Speeder is always a speeder—never hindered by a sticky grip. Arrows indicate the hardened thrust and sleeve bearings that prolong life—cut down wear and prevent sticking. Note how the grip is spun onto the handle—it can't come off.

Illurado Cuido



#### LASE RENCHES ate - Simple



#### Guesswork

same distance every time to same every time—withor use on all automotive, ably jobs where there are phtening of cylinder heads, plates, etc., can cause unmotor troubles yield to a

y accurate because Torkof alloy spring steel shaft, on lever devices, dials or

of design and quantity every individual mechanic and be sure of top-notch

#### o Lengths



These time proven, deand are available in 18" lve-In-One Scale (see next in-pounds. Red and black

acre Drive.



along same sound enging Torkflashes. Its 12½" table to aircraft and autonum measuring range of its. Has special scale for Available only with 75" and container.

ucre Drive.

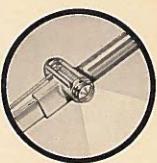
## Handy Guide

## Just set your Torkflash pointer to the desired tension and pull! A

EXCLUSIVE FEATURES OF BLACKHAWK TORKFLASH

Unique Flash Signal

pointer to the desired tension and pull! A bright flash of light automatically tells you when to stop — effective day or night — no dials to read — simplicity itself. Smash-proof plastic lens. Ordinary penlight bulb and battery easily removed and replaced. If bulb or battery fatl on the job, wrench can be read like ordinary types.



#### Five-In-One Scale

(furnished on Nos. 39975 and 49975)



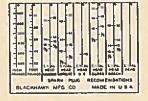
No need to be a mathematician to properly set and use Blackhawk Torkitash Tension Wrenches, Nos. 39975 and 49975. Scale has all "Units of Measure" found in service and instruction manuals. Cylinder is rotated by finger pressure to show desired scale. When

no tension recommendations in either inch-pounds or footpounds are available — simply determine U.S.S. or S.A.E. bolt diameter and set pointer accordingly. For checking pre-set tensions direct — reverse revolving scale unit so that pointer pulls from zero to tension of bolts. Range up to 1,600 inch-pounds.

#### Spark Plug Scale

(jurnished on No. 39968)

The special Spark Piug Scale of the short Torkflash, No. 39968, operates the same as the regular Five In-One Scale. It is calebrated in both inch-pounds and foot-pounds. Has the manufacturer's recommendations for Champion, Auto-Lite, B. G. Corporation,



Globe and American Bosch spark plugs. Recommendations are given for both cast fron and aluminum cylinder heads. Range — 600 Inch-pounds or 50 foot-pounds.

WRENCHES

#### 1/4" Square Drive

#### Hex Sockets

Socket	Socket	Socket
Size	No.	Size
32" 18" 11"	21012 21014	36" 14"

#### re "Lock-On" Drive Hex Sockets

T0"	30020	5/6"
1/2"	30022	14."
J.H.	30024	3/4"

#### are "Lock-On" Drive COR Sackala

dou	DOCKOLS	
18" 16" 16" 16" 17"	35128 35130 35132 35134 35136	76" 18" 1 " 1 %" 1 ½"
H 15		

#### I. "Lock-On" Drive Hex Sockets

32"	40130	18"
11 "	40131	31"
3/4"	40132	1 "
34"	40134	116"
18"	40136	1 1/8'
7/8"	40140	11/4"

#### iq. "Lock-On" Drive ockets

11/4"	60052	156"
1 18"	60054	1 1 1 1 1 1 1 1
1%"	60056	134"
18"	60058	149"
11/2"	60060	17/e"
18"	60064	2 "

#### 1" Sq. "Lock-On" Dr.

7/8"	80082	2 1
18"	80084	256"
61	80086	218"
16"	80088	23/4"
1/8"	80090	218"
Th"	80092	27/8"
1/4"	80094	2+4"
5 "	80096	3 "
3/8"	80098	316"
16"	80100	31/8"
14"	*80112	31/2"

#### Most Complete Line of Sockets In Standard Production

Electric furnace alloys for strength—hot broached for fit full chrome plate deleats rust and corrosion. "Lock-On" feature prevents sockets from sticking to nuts, falling into assemblies or getting lost on the job. 78", 1/2", 34" and 1" square drives all have Thumb-Release button for fast disconnecting.



Left-The 21006 14" drive series. Useful on all small

Right-Representative double square socket, available from "" to 15'8".

No. 21006 Series





Right-Small 36" drive sockets run up to 3/4" in size, are useful in confined places with short 3/8" drive handles.



No. 30008 Series

Left-Standard 1/2" drive sockets run from 36" to 114", will withstand maximum pull of big 1/2" handles.

No. 40112 Series

This Nugget socket will do the work of both 36" and 1/2" drive sockets of the same size. Steel is 70% stronger than electric furnace Chrome Vanadium-will outwear it 3 to 1. Has strength of 1/2" drive tools. size of %" drive tools. No duplication of sizes means 42% saving in cost over combination sets. See handles on pages 8 to 17.



No. 35110



No. 60028 Serles

Heavy duty 34" square Lock-On drive-range from 78" to 2"-for industrial, tractor, Diesel, bus, truck work, etc.



Extra heavy duty 1" square Lock-On drive sockets-complete range-cadmium plated-for industry and construction.







### CKETS

Double Square Sockets

٥,	Socket Size	No.	Socket Size
10	16"	21114	16"
12	3/6"	21116	1/2"

	Sq. "Loc		
12	3/8"	30116	1/2"

16"	Sq.	"Lock-On"	Drive
16	1/2"	35220	5/8"
18	10"	35224	3/4"

#### 1/2" Sg. "Lock-On" Drive 20 5/8" 40230 22 11" 40232 3/4" 116" 24 40234 34" 25 11/8" 40236 26 13" 40240 11/4" 7/6" 28

-3/4"	Sq.	"Lock-On"	Drive
36	11/4"	60146	1 7 <sup>7</sup> a"
40		60152	1 5⁄a"

#### 

#### Vail Double Hex Sockets "Sq. "Lock-On" Drive

.8	14	30322	₹8"
	5/8"	30324	3/4"

16"	Sq.	"Lock-On"	Drive
12	11 "	35330	18"
34	3/4"	35332	1 "
26	18"	35336	1 1/a"
18	7/B"		

Squ	are "L	ock-On"	Drive
16	3/4" 18" 7/8"	35530 35532	1 "

1/2"	Sq. "Le	ock-On"	Drive
4	3/4"	40330	1 18"
:6	13"	40332	1 "
18	7/8"	40336	11/8"

Ilmade Conida

## SOCKETS & SETS







NEW! Aero-Type Spark Plug Sockets



To complete and make Nuggets a truly "Double-Duty" and all purpose line—Blackhawk now offers special Aero-Type Spark Plug Sockets, 35518 Series, for automotive and aircraft work. These new sockets have replaceable synthetic rubber inserts to cushion insulators from shock or twist—prevent wasteful damage. Sockets are single hex and shallow broached. Range from 18" to 1" socket openings. Equipped with

socket openings. Equipped with patented "Lock-On" and Ta" Double-Duty Drive.

#### No. 19082 Socket Set

NEWI Five selected spark plug sockets to handle all cars up to and including 1941 models. Extra deep, thin wall double hex ½" series. Range from 5%" to 1". Packed in strong cardboard box.

Contents: One each Nos. 40320, 40322, 40326, 40328 and 40332.

No. 19082 Spark Plug Socket Set.

#### Pressed Steel Spark Plug Sockets

No. 3327 For all 18" hexagon spark plugs.

No. 3329 For all 1/8" and 1" hexagon spark plugs.

No. 3731 For all 18" and 116" hexagon spark plugs.

#### nt Sockets re "Lock-On" Drive

Size	No.	Socket Size
14" 5/a"	30222 30224	3/4"

#### get "Lock-On" Drive

76"	35 <b>4</b> 22	18"
5/8"	35424	3/4"
3/8	35424	3/4"

#### Joint

of universal joints stock e clearance-accessibility length.

. Drive []	No.	Sq. Drive
18" 1/2"	69993	3/4"

#### and Attachments

8	Length	"Lock-On" Sq. Drive
16"	1 "	3/8"
1/8"	114"	178"
04"	11/2"	1/2"
18"	31/4"	3/8**
1/4"	31/4"	3/6"
35"	31/4"	3/8"
1/4"	31/4"	16"
33"	31/4"	10"
1	314"	175"
3	31/4"	10"
3	31/4"	16"

#### lease Key

'n" Sockets in present % e drive series.

#### ors

			-
ised on indles			
rease	to	178	
recise	to	1/2"	
10GS0	to	3/4"	
rease	to	7/8"	
rease	to	1 "	
10030	to	1 "	
:Tegse	to	3/8"	
теазе	to	170	
теазе	to	1/2**	
теазе	to	3/4"	
Tease	lo	3/4"	
Tease	lo	7/8"	
rease	10	1/2"	

#### EATURES OF ATTACHMENTS

#### More Uses for Your Present Set



Blackhawk Universal Joint Sockets will operate through a full 45° angle and are extremely compact. Internal springs hold socket in any position necessary to get at bolts under fenders, on oil pans, starter motors and other such hard-toget-at places. "Lock-On" feature makes socket and handle assemblies as good as solid tools - no falling off or sticking in work.

Eleven sizes of screw driver bits for 38" and 18" "Nugget" drives. Included are both regular, Phillips, and tie rod bits. Very useful on magneto, carburetor, ignition and front end work. Phillips models are good for trim work, headlights and many assemblies.

Alert mechanics find these bits, when used with ratchets, bring real speed to awkward offset screw driver jobs.

Can also be used with speeders, extensions and hinged offsets to get in almost anywhere.



#### Stud Extractor

New Nugget Stud Extractor and setter. Simplified design with only two parts — provides "pipe wrench" grip on studs. Gear is forced into contact by handle action. Teeth are milled and heat treated. In addition to extreme range, new design functions with gear

flat against head or block. Handles 14" to 1/8" studs.

No. 39980—12" Square Drive Stud Extractor.
No. 49980—1/2" Square Drive Stud Extractor, handles studs from 1/4" to 3/4".

#### Ratchet Adaptors

New! Reversible Ratchet Adaptors no bigger than average sockets. Bring real speed to tension wrenches — new close quarter efficiency to speeders, offset and Tee handles, Adaptors have exclusive "Broached-Tooth" ratchet design — minimum outside diameter - instant fingertouch reverse - are equipped with "Lock-On".



No.	Outside	Overall	Number	Number	"Lock-On"
	Dic.	Length	Teeth	Pawls	Drive
39967	1 fb"	1 18"	18	1	1'a" 1/2" 3/4" 1 "
49973	1 fb"	2 18"	· 18	1	
69967	2 fb"	3 1/8"	24	1	
*89986	2 %"	4 1/2"	28	2	

<sup>\*</sup>Cadmium Plated.





## E PLIERS

#### Pump Pliers



ljustment with a range from 0 to 2." aptable for use on water pump justments and wherever a sure rvice station operator should have kness of jaws, 14".

Pliers.

#### ersal Pliers



Ideal for a wide range of uses including adjustments on water pumps, head - light

ry terminals, etc. Three position 7". Thickness of jaws, 12".

3F8.

#### Ignition Pliers



os and other small jobs. Three to opening range from 0 to \$4". ver-all length, 5".

n Pliers.

#### Spring Pliers



liers.

#### lic Brake Pliers

Brokes.



Alleron of an

rake Pliers.

## SELL YOURSELF WITH MODERN WRENCH EQUIPMENT



#### Be A "Sales-Minded" Mechanic

Today, you have to show people you're good, as well as be that way. The successful mechanic sells himself as well as his work.

People trade with efficient looking shops, where they feel their cars will be serviced correctly, without lost time. When they see the mechanic roll up a DD wrench bench and start to work with every tool at his fingertips, instead of rooting around under the bench, you can figure who gets the business.

Blackhawk has built up complete units of streamlined tools and cases—which serve the double purpose of **SELL-ING** your work, and helping you do it FASTER, more EFFICIENTLY.

Realizing that many men will want to buy these on a budget basis, Blackhawk has worked out several means of ownership. Ask your jobber salesman for details.

## et sets

ench & Nugget Set

SE CAN BE UNTED HERE



Here's the "flagship" of the Nugget fleet — the 99DD! Complete with 53 selected doubleduty Nuggets in the DD stand — the most practical, ultra-modern portable wrench set ever designed.

The DD stand is a combination wrench cabinet and work table with ample drawer space and a solid 1/8" steel work top. Inadjustcludes able work light. efectrical outlets and "disappearing" doors equipped with

de of heavy-gauge steel with chrome trimmings.

2" deep and 34" high with 3" ers have chromium plated pull ent is roomy for bulky tools, mium plated handle on right rolling stand on its two rubberwith chrome pull handles has I same rigidity as work bench.

#### r Investment

lose to lock up wrenches and ounted on one end of the rein-Blackhawk Engineers "thought D Wrench Bench was designed.

#### s - Attention!

with these attractive and profit nts. Better tools mean better s count these days when cusness to the shop that displays nent.

roduce new business and keep ian to point out a well equipped ich chests and stands will more

111

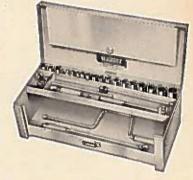
or Contents of Set.

## NUGGET SETS

Nos. 77K and 77L

the Here are sets thousands have bought as their "starter" on Nuggets, 77L includes 26 most essential Nuaget wrenches in the CB case. 77K is the same as 771. but includes the remarkable Torkligh tension wrench.

The attractive roomy CB chest has practical



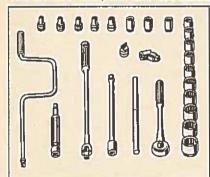
drop-cover design. Size 20½" long, 8¾" wide, 6½" high. Plenty of extra room for hammers, pliers and other tools—plus later addition of Nugget "fill-ins." Handles all automotive service and is especially ideal for work on Ford and Chevrolet—also serves trucks, modern tractors and industrial machines.

The 26 Nuggets—with their 178" double duty square drive—do all the work of 41 regular %" and ½" square drive tools (see diagram below). Figure the saving yourself—comparing the attractive 77L price with total cost of %" and ½" tools in ANY quality line.

For List of Wrenches in Set, see Page 29.

No. 77L Set Complete.

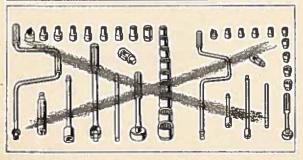
No. 77K Set Complete, (Includes Torkflash).



26 Nuggets in 77L

Replace 41
Tools in %"
and ½" Drives





## ET SETS

#### **Nugget Set**



ividual name plate, furnished to tumbler lock. in No. 19508 Case.

#### **Nugget Set**



Thirty plece general utility assortment, includes double hex, double square and long deep sockets plus 8 basic handles and attachments. Red enameled CA case (size 2014" long x 71%" wide x

ne for these brilliant performers.

#### **Nugget Set**



tipment. Furnished in trim red

in T Case.

### CONTENTS OF NUGGET SETS

					-			
	No.	Description	17K	30K	77L	77K	50B	99DE
				_		-		-
	35110	's Sg'l Hex Sk't	1	-1	1	1	- 1	1
	35112	%" Db'l Hex Sk't	1	1	1.	1	1	1
	35114	" Db'l Hex Sk't	1	1	- 1	1	1	- 1
	35116	1/2" Db'l Hex Sk't	1	1	1	1	i	1
	35118	" Db'l Hex Sk't	i	i	i	i.	i	i
	35119	al" Db'l Hex Sk't	i	i	i	i	i	i
	35120	5'a" Db'l Hex Sk't	i	i	î	-i	î	- 1
	35121	98" Db'l Hex Sk't	i	i	i	i	i	i
	35122	II" Db'l Hex Sk'l	i	i		i	í	í
	35124	3/4" Db'l Hex Sk't.	1		1			
	35126			1	1	1	1	1
		18 DOI DOX DK I	1	1	1	1	1	1
	35128	78" Db'l Hex Sk't	1	1	1	1	1	- 1
	35130	IE DDI HER SKI,	1	- 1	1	-1	1	3
	35132	1 DDI Rex Ski	1	1	1	1	1	1
	35134	11/2" Db'l Hex Sk't	1	- 1		1	1	1
	35136	11/8" Db'l Hex Sk'!	_	-	-	1187	-	-
	35140	11/4" Db'l Hex Sk't.	-		-	-	2	
3	35212	34" Dha Ca Chi		-419	-	_	1	700
	35214	" Db'l Sq. Sk't	_					1
	35216	1/2" Db'l Sq. Sk't		1	18	1	1	1
	35218	" Db'l Sq. Sk't	-	î	i	1	1	1
	35220	SA" DEI Co Chi	-	i	i	1		- 1
	35224	78 Db'l Sq. Sk't			25		i	2.5
	35314	Long Db'l Hex Sk'i			-	24		1
	35316				30.	-	1	
	35318	1/2" Long Db'l Hex Sk't	322	1	5		1	
		is bond but nex at i			11.11	=	1	1
	35320	%" Long Db'l Hex Sk't	-	+	-		1	-1
	35322	is roud ho! Hex Sk!	-	-			1	1
	35324	3/4" Long Db'l Hex Sk't	-	-		999	- 1	- 1
	35326	I'' Long Db'l Hex Sk't	100	1	-		- 1	1
	35328	78" Long Db'l Hex Sk'i	-	- 1			- 1	1
	35330	11 Long Db'l Hex Sk't	-	-	-	111	1	1
	35332	Long Dhi Her Skil	777	1	-		1	- 1
	35336	11/8" Long Db'i Hex Sk't 18" Univ. Jt. Sk't, Db'l Hex	- Britis	-	-	-	1	1
	35414	18" Univ. Jt. Sk't, Db'l Hex	-	-	-	-	1	i
	35416	1/2" Univ. It. Sk't, Db'l Hex 1/4" Univ. It. Sk't, Db'l Hex 1/4" Univ. It. Sk't, Db'l Hex	-	23	=		- 1	i
	35418	" Univ. It. Sk't, Db'l Hex	1000		S	1001	i	i
	35420	%" Univ. It. Sk't, Db'l Hex	****	26	-		i	1
	35422	i'' Univ. It. Sk't, Db'l Hex				=	i	1
	35424	11" Univ. It. Sk't, Db'l Hex 34" Univ. It. Sk't, Db'l Hex				-	i	- 1
	39965	Corone Dates OSE ' DOI NOX	100	-	766	=		100
		Screw Driver, .035"x14" Screw Driver, .040"x14"	-				1	1
	39966 39971	Screw Driver, .040"x11" Screw Driver, No. 2 Phillips .	*	-	-	-	1	
		Screw Driver, No. 2 Phillips .	1	-	550	-	-	1
	39972	Screw Driver, No. 3 Phillips .	=	and the	=	77	-	1
	39975	Torkildah Tension Wronch	-	dates.	-	1	-	1
	39976	Grip Handle, 51/2" long	-	-	1 11111	-	10	1
	39977	Speed Ball Handle, 8" long.	-	-		-	- 1	-
	39978	Universal Joint	-	1	1	1		1
	39979	Universal Joint	-	1	1	1	- 1	1
	39981	18" Extension	-	-	-		-	1
	39982	3" Extension	7	_	_	-	_	i
			COD.	1		-	-	
	39983		100	1	1	1	1	1
	39984	Hinged Offset, 71/4" long	-	****	West	100.0	-	1
	39985	Hinged Offset, 15" long	1	1	1	1	1	i
	39986	Handle Bar	i	1	i	i	i	i
	39990	10" Estevalor Box						
		10" Extension Bar	-	1	1	1	1	1
	39996	Two-Length Ratchet	-	-	1	1	-	-
1	39997	Free Wheeling Ratchet	-	1	every "	200	1	1
1	39999	Brace, 16" long	_	1	1	1	i	1
	-5445	meson to tond triticities	Contract of			4	1	L



Handles and Attachments

## ON SET

#### IDS and 74R Sets



Here is Wrench equipment for the aviation mechanic - designed for faster, easier work in close quarters. Sels were made up after extensive and thorough reby search Blackhawk Engineers, and include socket sizes and designs specifically developed for aircraft as

round lamous double-duty Nugsel-which eliminate duplication drive sets and save you up to ry. All Nugget wrenches have :k-On" feature, which prevents r dropping into assemblies—yet our thumb.

i sets all contain the same numets-and in addition, have the set for the more intricate asrk. Also included in these three ro-Type spark plug sockets with Hex socket for No. 8 Machine

tra-smart DD Wrench bench dei the Wheeled DS stand shown the streamlined and compact R

- a DD Stand:
- 1 DS Stand.
- 1 R Case

#### 4CA Set



Here is just the set for young mechanics and apprentices that are interested in getting the necessary wrenches for a starter at a minimum cash outlay. Contains the five most vital handles and attachments and nine essential sockets-complete in radiant red additions to the Nugget family.

IL

CA Case.

	24995	Grip Handle	
	24996	Extension	
	24997	Handle Bar	1
	24999	Hinged Offset	
	39965	Regular Screw Driver	9 16
	39966	Extension Handle Bar Hinged Offset Regular Screw Driver Regular Screw Driver Grip Handle 18" Extension 3" Extension 6" Extension 15" Hinged Offset Handle Bar 10" Extension	
	39976	Grip Handle	
	39981	18" Extension	1
	39982	3" Extension	1
	39983	6" Extension 1 15" Hinged Offset 1	
	39985	15" Hinged Offset I	
	39986	Handle Bar 1	
	39990	10" Extension	
	39996	Two-Length Ratchet	1
	39999	Brace	1
	N-5	Plastic Case	1
	21006	Two-Length Ratchet Brace Plastic Case I/4" Square Drive Sockets 4" Single Hex 4" Single Hex	
		A Single Hex	1
	21007 21008	y'' Single Hex '4" Single Hex '4" Single Hex	1
	21008	74 Single nex	
	21010		
	21011	f." Single Hex	1
	21012	1 Single Hex 1	
	21014	Ye" Double Hex	
	21017	7/25" Course Poles Contacts	
	35110	7/16" Square Drive Sockets	1 1
	35111	A" Single Hex	i i
	35112	% Double Hex	
	35114	76" Double Hex	
	35116	1/2" Double Hex	
	35118	"Double Hex	i i
	35120	%" Double Hex	i i
	35122	Double Hex	
	35124	1 Double Hex 1 1	
	35126	Il" Double Hex 1	
	35128	%" Double Hex	
	35130	# Double Hex Double Hex   1/4"	
	35132	i" Double Hex	i i
	35134	14" Double Hex	i i
	35136	11/8" Double Hex 1	1 1
	35140	174 DOUDIN DOX ASSESSED TO THE PARTY OF THE	i i
		Long Spark Plug Sockets	
	35314	## Double Hex	1 1
	35316	½" Double Hex	1 1
	35519	"Single Hex 1	1 1
	35520	56" Single Hex	1 1
	35522	I Single Hex	1 1
	35524	34" Single Hex	1 1
	35526 35528	34" Single Hex	1 1
	35530	%" Single Hex	1 1
	35532	It" Single Hex	1 1
	33332		1 1
	35412	Universal Joint Sockets	
	35414	%" Double Hex	1 1
	35416	1/2" Double Hex	1 1
	35418	Double Hex	1 1
	35420	%" Double Hex	
	35422	14" Double Hex	1 1
	35424	9a" Double Hex   1   1   2   2   2   2   2   2   2   2	i i
		Half and Halfs	
	15641	12"	1 1
	15642	\$1.74"	
	15643	82	i i
	15644	16" !	i i
	15645	i i	
	15646	%" 1	
		Short Box Types	
	15612	78 Short Box Types 78 -78	1 1
	15613	12"-16"	i i
	15614	56"-18" Long Box Types	i i
		Long Box Types	Tel la
	15625	34"-32" 1	1 1
	15626	18"-78"	1 1
	15627	3/"-45" cond nox 19pes	i i
	ATTO		
	4721	16"-38"	1 1
	4725	16 -12	I 1
	4727	1	1 1
	4730A	* * '-/8"	1 1
	4731A 4033C	18"-1"	1 1
	10330	18"-1"	1 1
,			
9			

## CH SETS

## echanic Sets



The big tool ashe 70R, 90R and 100W (either he most superb matched assorthe master mechanic can buy all popular drives—plus all imtype and open-end wrenches—e-way ticket to a better job and See pages 34 and 35 for con-

in R Case.
in R Case.
in W Case.

#### ruction Wrench Set



A complete and approved tractor and construction wrench set. Patterned after a set that Blackhawk has been furnishing one of the major tractor manufacturers for vears. Will handle all of the major jobs on popular tractor models or con-tractors' equipment. Made up of famous doubleduty Nuggets -

investment—34" drive sockets lexite Open ends and Box Types nt red, ultra modern W case. of for extras.

W Case.

35 for Contents of Set.

## WRENCH SETS

### New Master Mechanic Set

#### The Red Rover—Model 100DS



Here's a "natural" for the efficient shop. Scoot the Red Rover to the Job and you have all tools and necessary equipment at your finger-tips. Customers will know they are served by a top-notch mechanic who does not run up a time-charge by walking around the shop to find scattered tools.

A great time saver for industrial maintenance men who must move all their tools and equipment to any spot in the plant.

This rolling workshop comes with assortment of 100 selected Blackhawk tools in its fine roomy drawers. The DS Stand is 32½" high, 30½" wide and 17¾" deep. All drawers slide on rollers. Black ribbed-rubber matting on top prevents case or tools from marring finish. Double-doors with a built-in glove compartment type lock makes it a beautiful, fully enclosed stand.

Rubber-tired casters glide the Red Rover over any floor—silently and easily. Drawers have subdivided interiors for keeping sockets and handles in order. This sturdy, weldedsteel stand wheels tools and other equipment right to the job, saving countless trips to distant work benches.

There's no surer way to perform better work, get in solid with the customers and cinch your job than to own one of these glorious, complete wrench sets.

No. 100DS Set Complete in DS Stand.

See Pages 34 & 35 for Contents of 100DS.

Ilmala Carida

its of	Set	ls		
	T	OOLS	IN SE	TS: 100W
			90R	100DS
38, 1/4" S	quare			
	quare	1 1 1	1 1	1
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		i 1 1	1	1
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nnt Skit.		-	-	1
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	- 1	3		
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et	1	=	-	-
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" Square	"Lock-	On" D		
iint Sk't. iint Sk't. ' Square '  st	-	1	- 1	1
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			1	1
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et	HITTER STATE	1 1 1 1	i	i
et	=	1	1	1

I on next page)

#### Contents of Sets-(Con't.)

C IN CUPC.	Contents of Sets	—(0	Con't	.)	
S IN SETS: 100W			TOOLS	IN SI	TS:
R 90R 100DS	No. Description	52W			100W 100DS
1 1		0.111		-	
1 1	Standard Series, 1/2" Square	"Loci	c-On" D	rive	150
	40212 1/8" Double Square Socket	: =	-	-	
	40216 12" Double Square Socket	: =	1	1	1
	40220 % Double Square Socket	-	1	1	1
	40224 34" Double Square Socket 40316 32" Long Db'l Hex Sk't	-	=	i	i
l l	40318 18" Long Db'l Hex Sk't		1	1	1
1 1	40324 34" Long Db'l Hex Sk't	-		-	1
	40328 %" Long Db'l Hex Sk'l	=	1	1	1
	40332 1 Long Db'! Hex Sk'!	=	1	1	1
i i	Heavy Duty Series, 3/4" Squar	o "To	ak On"	Daire	
1	Henry Duty Series, 3/4" Squar 69987 Ratchet 69998 Ratchet 69998 Handle Bar 69998 Handle Bar 69998 Hinged Offset 60034 1½" Db'l Hex Sk't 60036 1½" Db'l Hex Sk't 60040 1½" Db'l Hex Sk't 60041 1½" Db'l Hex Sk't 60044 1½" Db'l Hex Sk't 60048 1½" Db'l Hex Sk't 60048 1½" Db'l Hex Sk't 60058 1½" Db'l Hex Sk't 60060 1½" Db'l Hex Sk't 60064 2 " Db'l Hex Sk't	. 1	-	Dilve	1
1 1	69996 Handle Bar		l	1	1
1 1	69997 18" Sliding Offset	1	=	=	-1
1 1	60034 1 % Db'l Hex Sk't	1	-	-	-1
i i	60040 114" Db'l Hex Sk'i	į	i	i	i
1	60044 1¼" Db'l Hex Sk't		1	1	1
	60048 1½" Db'l Hex Sk't	1	1	1	1
Dalara I	60052 156" Db'l Hex Sk't 60054 111" Db'l Hex Sk't	1	1	i	i
Drive	60056 1¼" Db'l Hex Sk't 60058 1¼" Db'l Hex Sk't	i	****	1	1
	60060 178" Db'l Hex Sk't	1	Ξ		1
	DDI HEA GET THE TELL THE THE TELL THE T	1	-	-	-
	Short Double Offset Roy.Tv	ma W	renches		
	15613 1/2" & 6" Double Hex	1	1	1	
	15614 %" & 11" Double Hex		1	1	1
E E	Long Double Offset Box-Ty	pe W	renches		
	15624 5/8" 6 18" Double Hex	i			
5 5	15625 34" & 11" Double Hex	1	1	1	1
	15626 13" & 76" Double Hex		1	1	1
	15623 1/2" 6 %" Double Hex 15624 5%" 6 it" Double Hex 15625 3/4" 6 it" Double Hex 15626 3/4" 6 it" Double Hex 15627 1i" 6 it" Double Hex 15627 1i" 6 it" Double Hex 15629 1" 6 1t" Double Hex 15630 1/6" 6 it" Double Hex	1		-	-
	The state of the s			-	, morale
Drive	Tappel Open-End Wr	enche		2	2
1 1	422 1/2" & %" Tappet Wrench 424 3%" & 18" Tappet Wrench 425 34" & 76" Tappet Wrench	2	=	2	2 2 2
				2	2
	Open End Wrench	108			
	4721 1" 6 %" O. E. Wrench	-	=	1	1
	4725 1. 6 1/2" O. E. Wrench	-	-	1	1
1 1	4727 1 5 % O. E. Wrench	1	-	1	1
1 1	4731A 34" 6 78" O. E. Wrench	1		i	İ
i i	4020 '4" & A" O. E. Wrench 4721 A" & 34" O. E. Wrench 4723 '4" & 4" O. E. Wrench 4725 '4" & 4" O. E. Wrench 4725 '4" & 4" O. E. Wrench 4727 A" & 54" O. E. Wrench 4727 A" & 54" O. E. Wrench 4730A 44" & 78" O. E. Wrench 4731A 44" & 78" O. E. Wrench 4731A 44" & 78" O. E. Wrench 4731A '4" & 78" O. E. Wrench	i		i	i
• ! !				No. of Contract of	****
1 1	Ignition Open-End Wr	enche	1723	1	1
	H10 A" & 7," Ignition Wrench H12 1/4" & 7," Ignition Wrench H14 A" & 1,4" Ignition Wrench H16 36" & 7," Ignition Wrench	100	E	i	1
	Hi6 %" & 76" Ignition Wrench		Ξ	i	1
11	Civida Suppl				
				4.1	

## igies"

re Wrench Sets



brand new NUGGIES—the thinnidget 1/4" drive wrenches ever i trick—look at those trim, slim ough sockets, the startling new Hype sextet. Yes sir—Nuggies or, magneto, ignition and other

o 7s"—made of famous Hexite onstruction as their big Nugget nged Offset, Handle Bar, Insuension Bar.

openings 72" to 14", the neatthe market—they're patterned d Hexite Open-Ends.

sortment of 1/4" series tools is and black plastic case fitted with right size for carrying in your

#### Contents

24997 Handle Bar 24996 Extension Bar 24995 Grip Handle 15641 4" Hall & Hall 15642 4" Hall & Hall 15643 4" Hall & Hall 15644 4" Hall & Hall 15645 4" Hall & Hall 15645 4" Hall & Hall 15646 4" Hall & Hall

## n N-5 Case. Contents

	21011 21012 21014 24999 24997	Hing	Db	'l I	lex fact	Sk't Sk't Sk't	
3	¾" wide,	14	' hi	għ.			

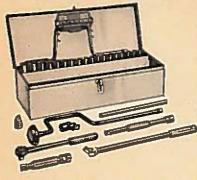
n N-5 Case.

No. 24991 ¼" drive ratchet. 5738 ¼" half & half.

Illurador Carala

## WRENCH SETS

General Utility—30CD



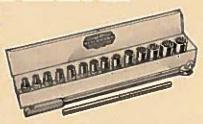
A good all ground assortment for general work. Packed in red enumeled CA Case, 201/8" long, 7%" wide, 51/2" All units are chrome plated and have standard 1/2" square "Lock-On" drive. In neat appearance and range this set is all any mechanic could

desire. A great favorite for work on construction machinery, tractors and other farm implements.

No. 30CD Set Complete in CA Case.

#### 17TD and 13PD Sets

17TD has complete range of thin wall sockets. Packed with hinged offset and handle bar in red enameled "T" case, 184" long, 124" wide, 14" high.

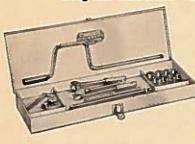


13PD is similar

with four less sockets and shorter hinged offset. In general use around service stations, or as emergency kits in trucks and buses.

No. 17TD Set Complete in T Case. No. 13PD Set Complete in T Case.

#### Repair Service—16QD



A complete set of thin wall %"
"Lock-On" drive sockets and proper handles, including "Free Wheeling" ratchet. For close work up to %" nut sizes on modern cars and planes. (For greater range in close work see Nugget

sets on pages 26 to 29.) Oil burner, air conditioning and refrigerator service repair men buy this handy set. Packed in red enameled Q case—20" long, 6%" wide and 11%" high.

No. 16QD Set Complete in Q case.

See Page 39 for Contents of Sets.

## CH SETS

#### ıty Set-12SD



Mechanics industry and construction, truck and bus shops endorse this handy set of heavy duty wrenches. No chance of sockets slipping off, all units have 3/4" Square "Lock-On" drive. Set packed in CA case, 201/a" long, 73/4" wide, 51/2" high.

CA Case.

#### ıty Set-14BD



The most popular set of powerful heavy duty handles and sockets for repair and assembly of mine equipment, industrial machinery. trucks. tractors. combines, farm and power equipment, graders, pavers and other machine units. No chance of socket slipping from han-

dle end for all square "Lock-On" drive. CA

CA Case.

#### Duty Set-12ED



For industrial machinery installation and maintenance. 1" Square "Lock-On" drive for safety, with wide socket range—finished in cadmium. Packed in red enameled case 23½" long, 7" wide, 4¼" high with carrying handle.

Illander Carl

E Case.

or Contents of Sets.

#### Contents of Sets

		rools		
No.	Description 30CD	17TD	13PD 1	6QD
	Small Series, 3/2" Square "Lock-On "Free Wheeling" Ratchet	" Drive		100
34981 34982	18" Speeder	-	=	1
34984				i
34985	10" Extension — Handle Bar —	ann .		i
34986	8" Hinged Offset	2500	and .	i
34987	3 Extension	-	=	1
34990 34993		100	1	1
30010	A" Single Hey Socket		7	1
30012	3/4" Double Hex Socket	-		î
30014	18" Double Hex Socket	1	-	1
30016	Universal Joint  Single Hex Socket  Double Hex Socket  Double Hex Socket  Double Hex Socket  Double Hex Socket		_	1
30018 30020	% Double Hex Socket — 58 Double Hex Socket — 11 Double Hex Socket — 34 Double Hex Socket — 54 Double Hex Socket — 54 Double Hex Socket — 54 Double Hex Socket — 55 Double Hex Socket —	-	_	]
30020	11" Double Hex Socket	-	-	1
30024	3/4" Double Hex Socket	-	-	i
	Standard Series, 1/2" Square "Lock-	On" D	ive	
49978	%" Double Hex Socket 4" Double Hex Socket 3" Double Hex Socket  "Lock Standard Series, ½" Square "Lock Universal Joint 1 Tie Rod Bit 1 6" Extension (with grip) 1 11%" Hinged Offset 1 15%" Hinged Offset 1 Handle Bar	100	-	-
49979	Friendles (with sele)		-	37
49984	1156" Hinged Offset	-	1	177
49985	1556" Hinged Offset 1	1	-	
49986		$\frac{1}{1}$	1	-
49987	10" Extension with Grip 1	100	-	-
49988	15%" Brace 1	1		arrest .
49992 49994	10" Speeder 1		7	0
49998	19" Speeder			
40112	Ratchet 34" Double Hex Socket   1 4" Double Hex Socket   1 2" Double Hex Socket   1 4" Double Hex Socket   1 4" Double Hex Socket   1	I	1	-
40114	1 Double Hex Socket 1			
40116	1/2" Double Hex Socket 1	1	1	-
40118 40119	72 Double Hex Socket	1	1	
40120	5/a" Double Hex Socket	i	i	
40121	31" Double Hex Socket 1		-	
40122	Double Hex Socket	1	1	200.0
40124	3/4" Double Hex Socket 1	1	-11	
40125 40126	##" Double Hex Socket 1	1		200
40128	7/a" Double Hex Socket		7.5	
40130	18" Double Hex Socket 1	1	4	
40130 40132	18" Double Hex Socket 1	1		=
40130 40132 40134	11" Double Was Castras	1 1		
40130 40132 40134 40136	11" Double Was Castras	1		
40130 40132 40134 40136 40214	11" Double Was Castras	1 1		
40130 40132 40134 40136 40214 40216 40218	11" Double Was Castras	1 1		
40130 40132 40134 40136 40214 40216	Par   Double Hex Socket   1/6" Double Hex Socket   1/6" Double Square Socket   1/2"	1	THE PERSON	
40130 40132 40134 40136 40214 40216 40218 40220	1/a" Double Hex Socket	TOOLS	IN SET	
40130 40132 40134 40136 40214 40216 40218	1/a"   Double   Hex Socket	TOOLS	IN SET	S: ZED
40130 40132 40134 40136 40214 40216 40218 40220 No.	1/a"   Double   Hex Socket	TOOLS	IN SET	
40130 40132 40134 40136 40214 40216 40220 No.	1/a" Double Hex Socket	TOOLS 12SD Dn" Dr	IN SET	
40130 40132 40134 40136 40214 40218 40220 No. 69994 69995	1/a" Double Hex Socket	TOOLS 12SD Dn" Dr	IN SET	
40130 40132 40134 40136 40216 40218 40220 No. 69994 69995 69997	1/a" Double Hex Socket	TOOLS 12SD Dn" Dr	IN SET	
4013U 40132 40134 40136 40214 40216 40220 No. 69994 69995 69997 69997 89998	1/a" Double Hex Socket	TOOLS 12SD On" Dr	in Set 48D 12	
4013U 40132 40134 40136 40214 40216 40218 40220 No. 69994 69995 69997 89998 69999	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 48D 12 ive 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4013U 40132 40134 40136 40214 40216 40220 No. 69994 69997 69999 69999 69999 69032	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 14BD 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4013U 40132 40134 40136 40214 40216 40218 40220 No. 69994 69995 69997 89998 69999	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 4BD 1:	
40130 40132 40134 40136 40216 40218 40220 No. 69994 59995 69999 69999 60032 60034 60036 60040	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 4BD 12 ive 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
40130 40132 40134 40134 40216 40218 40228 No. 69994 69997 69997 69999 60032 60034 60040	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 14BD 12 ive 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
40130 40132 40134 40136 40216 40218 40220 No. 69994 69995 69999 60032 60034 60040 60042 60044	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 48D 1:	
4013U 40132 40134 40136 40216 40218 40220 No. 69995 69995 69997 69998 69999 60032 60034 60040 60046	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 4BD 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
40130 40132 40134 40136 40216 40218 40220 No. 69994 69995 69999 60032 60034 60040 60042 60044	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 48D 1:	
4013U 4013U 40134 40134 40216 40218 40220 No. 69994 69996 69997 69998 60032 60034 60046 60048 60048 60048 60048	1/a" Double Hex Socket	TOOLS 12SD On" Dr	IN SET 4BD 1:	
40130 40132 40134 40136 40216 40218 40220 No. 69995 69996 69997 60032 60034 60042 60042 60046 60042 60048 60048		TOOLS 12SD		
40130 40132 40134 40136 40216 40218 40220 No. 69995 69996 69997 60032 60034 60042 60042 60046 60042 60048 60048		TOOLS 12SD		ZED
40130 40132 40134 40136 40216 40218 40220 No. 69995 69996 69997 60032 60034 60042 60042 60046 60042 60048 60048		TOOLS 12SD		
40130 40132 40134 40134 40216 40218 40220 No. 69995 69996 69997 69998 69998 69998 60032 60034 60046 60048 60048 60048 60058 60058 60058 60058 60058 60058 60058 60058		TOOLS 12SD	IN SET 14BD 12 ive 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2ED
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4013U 40132 40134 40134 40216 40218 40220 No. 69995 69996 69997 89998 69999 60032 60040 60042 60048 60040 60048 60058 60068 89997 89998 89999	1/a" Double Hex Socket	TOOLS 12SD	IN SET 14BD 12 ive 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2ED
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## RENCHES

#### Offset-Long



nous "Hexite Open-Ends"—thinner arters work and plenty tough, Actly balanced and neatly finished.

th	No.	Opening	Length
	15629 15630 15629 15830 15831 15832 15833	1" x1 &" 11/6" x1 1/4" 11/4" x1 3/6" 1 & "x1 5/6" 1 { { { { { { { { { { { { { { { { { { {	16¼" 16¼" 18½" 23" 24¼" 26" 28"

#### 19057 Set

six long double offset box-types: Nos. 15622, 15623, 15624, 15625,

#### Offset-Short



that will lit in your pocket—just manifold nuts; starter, generator, ountings.

**	H	15614	96"×11"	6"
----	---	-------	---------	----

#### 19056 Set

ne above short box-types, packed

#### Head Style



ngl-Heads can be used in places ance. Provide straight line pull

11	15636	1 7/4" = 38"1	123/4"
67		1,7,9 0,18	4479
2 2 2	15637	10 知義"	141/5"
P.F.		1120 1520	176
300	15638	11/8"x11/4"	
719	15639	1.8 ((-134))	173/4"
t, H	10000	TALE WINE	1174

#### 19058 Set

six Angl-Heads: Nos. 15632, and 15637. Packed in cardboard

Ilmoda Carida

## BOX WRENCHES

#### Half & Half Style



Combination open-end and box-type in one wrench. A handy double-duty wrench for quick adjustments and tune-up work. Each end has the same size opening, offering a double attack on stubborn nuts. A real service station favorite.

No.	Opening	Length	No.	Opening	Length
15647	18	5"	15650	5/8"	6 1/a"
15648	1/2"	5¼"	15651	11 "	7"
15649	18"	5¾"	15652	3/4"	8"

#### No. 19059 Set

Four of the above Half & Halfs packed in cardboard box Contains Nos. 15647, 15648, 15649 and 15650.

#### No. 19074 Set

A complete set of Half & Halfs. Contains No. 15647. 15648, 15649, 15650, 15651 and 15652. Packed in cardboard box.

#### Miniature Half & Halfs



Here's the latest thing in half and halfs. The smallest, lightest wrenches you've ever twirled. Thin and slim—yet plenty tough for their size. Same size opening on both ends

15641 15642 15643	5 <sup>7</sup> 2" 1/4"	3" 3" 3½"	15645 15646 15738	36" 36"	4 fa" 4 fa" 3"
15644	18"	31/2"	10		

#### No. 19086 Set

A set of six of the miniature half and halfs shows above packed in cardboard box. Contains Nos. 15641, 15642, 15643, 15644, 15645 and 15646.

#### Half Moon Types



The wrench every mechanic needs—it sneaks around corners and in-between or in-betwixt most any place. Just the wrench for generator and starter mountings, manifolds or exhaust nuts and other tricky places.

15659	%"x18"	73/4"
15660	18"x34"	7¾"

#### eel—Cadmium Plated

thes for industrial, construction. Excellent for rear axle nuts on ie pull gives greater leverage. - do not spread -- do not burr strude above nut.

aight or offset shanks. Shank fles for long leverage. All dou-



#### ight Type

e No. Op	ening Handle
15692 1 15693 1 15694 2 15695 2 15696 2	# 15744 15745 36" 15745 15745 15745 15745 14" 15745



#### set Type

	15721	13/4"	15744
	15722	148"	15744
: 1	15723	17/8"	15744
	15724	20	15744
1	15725	23"	15744
	15726	21/4"	15745
	15727	236"	15745
	15728	2 4"	15745
4	15729	23/4"	15745
1	15730	211"	15745
	15731	3½"	15745

#### lles for Stub-Ends



sembled ength	Outside Dia.	Inside Dia.
23" 24" 35"	1/3:	5/8" 
41" 521/2"	1½" 1½"	11/8"

Alleman along

## SERVICE TOOLS

The "Adjusto" No. 151

Adjustable lit the majority drain plugs, square or hex. male or lemale. Used universally on all transmissions, differentials,



shock absorbers, gas tanks and vacuum tank drain and filler plugs. Jaws adjustable by a twist of thumb on knurled sleeve-not on handle grip as with ordinary wrenches. 9" length-selected steel-cadmium plated. Adjustable sockets and plugs to fit—hex male plugs, 7 to 11/2": square male plugs, fa" to 114"; square female openings, Ta" to 1".

#### The "Multi-Plug" No. 152



piece-handy compact-fits practically all female plugs on every car. Length, 8"-selected steelheat treated—cadmium plated Has the following sized plugs - th" 11", 36", 1""

12", 16", 98" square: 17" hexagon.

#### Ford & Mercury Drain Plug Wrench

No. 15798, fits 1939 and later Ford, Mercury and Zephyr's; 2" hexagon opening. The square opening fits transmission



drain and filler plugs in entire Ford group. 101/2" offset handle.

#### Ford Connecting Rod Socket

The No. 35199, a new 18" square drive Nugget socket designed for Ford connecting rods Front of socket is turned down to fit counter bore on rods. Has fa" single hex opening.

#### Ford Connecting Rod Socket







opening.

#### Chevrolet Oil Pan Socket

No. 34992 screw driver socket-fits all Chevrolet oil pans. %" square drive.

## E TOOI

#### Rim Wrenches



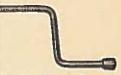
s that sneak in back of modern construction takes care of exsel, cadmium plated. ap remover in one socket. 18" and 1/8" hexagon. > Puller. Cap Puller.

#### ype Rim Wrench



anic, tire dealer and service stamore of these four-in-one Rim pell-shaped sockets in 56", 34",

#### Rim Wrenches



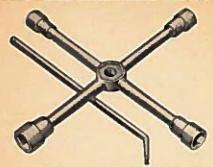
tip all your used cars with qualcost. All popular sizes. Thin ated.

Stock Dia.	Shank Length	Sweep
1/2"	53/4"	47/8"
1/2"	53/4"	47/a"
1/2"	53/4"	47/s"
1/2"	53/4"	47/8"
1/2"	5%4"	47/8"

11

## SERVICE TOOLS

#### Universal Truck Rim Wrench



(Cross Type With 6 Socket Sizes)

receive pry bar.

No. 5206 Rim Wrench only.

No. 5401 Pry Bar only.

#### Truck and Bus Rim Wrenches



No. 5448 - For Ford AA Trucks, Budd - Michelin Wheels, Budd Duals, Dayton Spokesteel Wheels, change-overs, and deep dual discs.

No. 5440—Has 76" hex opening for 1933-34 Trucks, also 1931 and 1932 Chevrolet Trucks. Has square openings for rear wheel rim studs, and two hex openings for front and rear wheel rim

No. 5434 For all other truck, bus and trailer rim nuts.

No. 5401 Used as prybar on tough nuts.

No.	Socket Sizes	Stock Dia.	Length
†5448	12" Sq., 118" & 11/2" Hex 56" Sq., 78" & 11/4" Hex 1 1 1 Hex Pry Bar only	7/8"	161/5"
†5440		7/8"	161/5"
†5434		7/8"	161/5"
5401		3/4"	20"

†Does not include No. 5401 Pry Bar.

#### Red Cross Rim Wrenches



You can't beat these sturdy rim wrenches on any job requiring a of strength. A handle bar provides extra leverage to break loose frozen nuts. Ideal for trucks, trailers

and buses. Does not include 15140 handle bar.

No. 15137—For general truck, bus and trailer rim
nuts. Length 161/2". Socket openings 1/2" and 1/4"

No. 15138—For Chevrolet trucks. Has square openings for rear wheel rim studs and Hex for front and rear rim nuts. Length—16½". Openings—3½" sq., 7½" and 1½" Hex.

No. 15139—For Ford AA trucks—Budd-Michelin, Budd Duals, Dayton, Spoke-steel, changeovers and deep dual discs. Length—16½". Openings—12" sq., 1½" and 1½" Hex.

No. 15140—Handle Bar for above wrenches, 18" long, 34" ock dismeter.

stock diameter.

# GHT AND BULK

### CER LEVERAGE LONGER LIFE

Blackhawk - Armstrong Open-Ends are made of HEXITE STEEL — hence their thinner heads; pear - shaped jaws; comfortable, thin handles, lighter weight; better balance and longer wearing qualities. Perfect companions to Nugget Socket Wrenches, also made of Hexite.

#### BEAUTIFULLY FINISHED

HEXITE Open Ends sparkle with rich brilliance. Flawless heads are buffed and polished—handles are satin finish. (Ordinary wrenches are usually not polished because high finish emphasizes flaws and defects.)

Each wrench is scientifically heat treated. Openings are accurately milled—and, because of Hexite's hardness, will not round out as easily as ordinary open-ends.

13 HEXITE Open Ends do
the work of 41 odd sizes—
saves you 70% on tool outlay
— makes work easier and
faster.

See next page for complete listings.

### OPEN-ENDS

#### Practical Combinations

HEXITE Open-Ends have size combinations arranged progressively. No improper size combinations and excess weight to relard work and increase tool investment. Following are the 13 Blackhawk-designed Open-Ends—made under the famous Blackhawk-Armstrong trade name:

No.	Milled Openings	Overall Length	Head Thickness
4020	1/4"— 18"	41/4"	g4.,
4721	18"- 3%"	43/4"	11"
4723	₹8"- ₹8"	51/4"	32"
4725	18"- 1/2"	5% "	15"
4725B	1/2"- 3"	61/2"	1/4"
4727	18"— 5/8"	71/4"	17"
4729	56"- 34"	8"	18"
4028	18"- 39"	8"	12"
4730A	18"- 18"	834"	18"
4731A	3/4"- 7/8"	91/2"	18"
4033C	18"-1"	101/2"	31"
4735A	116"-116"	111/2"	23"
4737	11/8"—11/4"	121/2"	3/8"

#### New Hexite Open-End Sets

8CB and 8LR offer the eight most commonly used open-ends. Sets contain one each of the following: Nos. 4723, 4725, 4725, 4727, 4729, 4028, 4730A and 4731A.

12.1



No. 8CB 8 Open-Ends, packed in cardboard box.
No. 8LR 8 Open-Ends, packed in leatherette roll.



13CB and 13LR contain all 13 of the Hexite Open-Ends for complete service an all types of automotive, aviation and industrial equipment.

No. 13CB 13 Open-Ends, packed in cardboard box.
No. 13LR 13 Open-Ends, packed in leatherette roll.

## enches and Sets

nese Miniature Wrenches take fight out of the stubborn baby L. Ideal for every small delicate

JU	Milled Opening	Length	Thickness of Head
)	78 6 32"	21/2"	23.
3	14" 6 32"	3 "	a'b''
1	18" € 32"	33/4"	16
3	36" 6 76"	41/8"	32''
3	33" & 34"	41/6"	32"

bove. In Cardboard Box.

#### enches and Sets

he approval of Ignition experts. ined in leatherette case.

J	No.	Size Opening
	E-7	32" (1/4")
2")	E-8	32" & 73"
	E-9	1/2"
	E-10	36" & 13"
	E-11	14" & B"

bove. In Cardboard Box.

#### s Tappet Wrenches

bly priced tappets, welcomed by thin—they sllp in easily where i of the best alloy steel—and as at 15° angle.

Length	Thickness of Head
8" 8" 8½" 9"	12" 12" 12"

of Nos. 422, 424, 426. Packed in

, packed in Leatherette Roll.

#### Tappet Wrenches



rs require these long tappet have single end opening. 200ÅB

15"	16"
15"	3"
15"	16"

IT NEW "HEXITE" OPEN-ENDS

#### BLACKHAWK SERVES YOU WITH

## the only Complete Line of

### HYDRAULIC JACKS

Blackhawk introduced the first perfected line of Hydraulic Jacks in 1926. Since then Blackhawk has added many refinements and exclusive adaptations of the Hydraulic Jack principle — as described briefly below. Blackhawk Hydraulic Equipment has millions of users in all automotive, industrial, construction, aviation, machinery and other service fields. See complete catalogs for listings and prices.



#### HAND JACKS

1 to 75-tons capacity — exclusive combination of features. Every jack tagged with "Service Proved" seal — your assurance of Dependable, Mainlenance-Free Performance.



#### SERVICE IACKS

 $1\frac{1}{2}$  to  $7\frac{1}{2}$ -ton capacity. Outstanding features such as built-in spot lights and handle lock. Rugged — dependable, serve every range of road vehicle.



### GAUGE-EQUIPPED & INVERTED JACKS

Only Blackhawk manufactures a complete line of Hydraulic Jacks on which gauges of various diameters can be mounted for portable test-work in field, shop and laboratory. Invorted jacks serve in presses and special machinery applications.



### "PORTO-POWER" JACKS

Are exclusive Blackhawk creations. Pump is separated from all-directional ram by high-pressure safety hose. Special attachments harness the ram action to do anything the hand can do — but with tons of power! Capacities from 2 to 50 tons.

## **BLACKHAWK**

World's Largest Manufacturer of Hydraulic Jacks

